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PTC/SB/21 (07-06)
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Under the Pa	perwork R	eduction Act of 1995	, no person:	s are required to respond to a Application Number			uniesa i	displays a valid OMB control number.					
				10/630,0	10/630,074								
TRANSMITTAL				Filing Date	07/30/20	07/30/2003							
FORM				First Named Inventor	David R.	David R. Milich							
				Art Unit	1648	1648							
				Examiner Name	Peng, B.	Peng, B.							
(to be used for all correspondence after initial filing)				Attorney Docket Number	VACCINI	VACCINE-07971							
Total Number of	Pages In	This Submission	21		VACCINI	VACCINE-07971							
ENCLOSURES (Check all that apply)													
Amendming An	Fee Attached Amendment/Reply After Final Affidavits/dectaration(s) Extension of Time Request Express Abandonment Request		Drawing(s) Licensing-related Papers Petition Petition to Conwert to a Provisional Application Power of Attorney, Revoca Change of Correspondence Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table on the	e Address		Appea of Appea (Appea Propri	Allowance Communication to TC all Communication to Board peals and Interferences all Communication to TC all Notice, Brief, Reply Brief) retary Information is Letter Enclosure(s) (please Identify):						
		SIGNA	TURE O	F APPLICANT, ATT	ORNEY,	OR AG	ENT						
Firm Name	Medlen	& Carroll, LLP	_	a									
Signature	Ch	Al a.	tel	nli									
Printed name	ted name Christine A. Lekutis												
Date August 9, 2006				Reg. No. 51,934									
CERTIFICATE OF TRANSMISSION/MAILING													
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:													
Signature Chile White													
Typed or printed name		Christine A. Lekutis					Date	August 9, 2006					

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PTO/SB/17 (01-06)

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Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number Complete if Known Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). Application Number 10/630,074 TRANSM Filing Date 07/30/2003 For FY 2006 First Named Inventor David R. Milich Examiner Name Peng, B. Applicant claims small entity status. See 37 CFR 1.27 Art Unit 1648 TOTAL AMOUNT OF PAYMENT VACCINE-07971 Attorney Docket No. METHOD OF PAYMENT (check all that apply) Credit Card Money Order Other (please identify): Deposit Account Name: Medlen & Carroll, LLP ✓ Deposit Account Deposit Account Number: 08-1290 For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) √ Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee Charge any additional fee(s) or underpayments of fee(s) ✓ Credit any overpayments under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.) 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **EXAMINATION FEES SEARCH FEES FILING FEES** Small Entity Small Entity Small Entity Fees Paid (\$) Application Type Fee (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) 200 100 Utility 300 150 500 250 200 100 100 50 130 65 Design 200 300 160 Plant 100 150 80 600 300 Reissue 300 150 500 250 0 Provisional 200 100 0 n O Small Entity 2. EXCESS CLAIM FEES Fee (\$) Fee (\$) Fee Description Each claim over 20 (including Reissues) 50 25 200 100 Each independent claim over 3 (including Reissues) Multiple dependent claims 360 180 **Multiple Dependent Claims** Fee (\$) Fee Paid (\$) **Total Claims** Extra Claims Fee Paid (\$) Fee (\$) 150 - 20 or HP = 25 HP = highest number of total claims paid for, if greater than 20. Fee Paid (\$) Indep. Claims Extra Claims Fee (\$) - 3 or HP = HP = highest number of Independent claims paid for, if greater than 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Number of each additional 50 or fraction thereof Fee Pald (\$) Extra Sheets Fee (\$) **Total Sheets** (round up to a whole number) x 4. OTHER FEE(S) Fees Paid (\$) Non-English Specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge) SUBMITTED BY Registration No. 51,934 Telephone 415/904-6500 Signature (Attorney/Agent) Date August 9, 2006 Name (Print/Type) Christine A. Lekutis

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, A450 Atlantage VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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AUG 0 9 2006

PTO/SB/17 (01-06)
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Fees pursuant to the Consolidated Ap		Application Number 10/630		30,074									
FEE TRAN	42 I I IIVI <i>O</i>	Filing Date 07/30/		/2003									
For FY	/ 2006	First Named Invent	or David R	. Milich									
		Examiner Name	Peng, B										
Applicant claims small entity t	Art Unit 1648												
TOTAL AMOUNT OF PAYMENT	Attorney Docket No	. VACCIN	IE-07971										
METHOD OF PAYMENT (check all that apply)													
Check Credit Card Money Order None Other (please identify):													
Deposit Account Deposit A	Deposit Account Deposit Account Number 08-1290 Deposit Account Name: Medlen & Carroll, LLP												
For the above-identified de													
Charge fee(s) indicate						pt for the filing fee							
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Charge any additional fee(s) or underpayments of fee(s) Under 37 CFR 1.16 and 1.17													
WARNING: Information on this form may become public, Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.													
FEE CALCULATION (All the	fees below are due u	upon fil	ing or may be su	bject to a su	ırcharge.)								
1. BASIC FILING, SEARCH, A	ND EXAMINATION	FEES											
	ING FEES			XAMINATIO									
Application Type Fee	Small Entity (\$) Fee (\$)	Fee (\$	Small Entity Fee (\$)		l Entity e (\$)	Fees Paid (\$)							
Utility 300		500	250	200 1	00								
Design 200	100	100	50	130	65								
Plant 200	100	300	150	160	80								
Reissue 300	150	500	250	600 30	00								
Provisional 200	100	0	0	0	0								
2. EXCESS CLAIM FEES			·			mall Entity							
Fee Description					Fee (\$) 50	Fee (\$) 25							
Each claim over 20 (includi Each independent claim over		ac)			200	100							
Multiple dependent claims	a 5 (mending Reisso	icsj			360	180							
	Claims Fee (\$)	Fee	Paid (\$)	<u>N</u>	Ruitiple Dep	endent Claims							
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 APPLICATION SIZE FEE If the specification and drawing 	ngs exceed 100 sheet	s of par	er (excluding elec	tronically fil	ed sequenc	e or computer							
listings under 37 CFR 1.5	2(e)), the application	size fee	e due is \$250 (\$12	for small e	ntity) for ea	sch additional 50							
sheets or fraction thereof.	See 35 HS C 41(a)	(1)(G)	and 37 CFR 1.16(s	i).									
Total Sheets Extra	<u>Sheets</u> / 50 =	r or eac	h additional 50 or fi (round up to a who	le number) x	1	= <u>Fee Faid (#)</u>							
4. OTHER FEE(S)			•	-		Fees Paid (\$)							
Non-English Specification, \$130 fee (no small entity discount)													
Other (e.g., late filing surcharge):													
SUBMITTED BY		//											
Signature Charles	a. luh	(1)	Registration No. Attorney/Agent) 51,9	34	Telephone	415/904-6500							
Name (Print/Type) Christine A. Lekut		Date Augu											

This collection of information is required by 37 CFR 1.136. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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2004/021

AUG 0 9 2006

Attorney Docket No. VACCINE-07971

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: David R. Milich et al.

Serial No.:

10/630.074

Group No.: 1648

Filed:

07/30/2003

Examiner: Peng, B.

Entitled:

Human Hepatitis B Virus Core Proteins As Vaccine Platforms And

Methods Of Use Thereof

AMENDMENT AND RESPONSE TO FINAL OFFICE ACTION MAILED JUNE 13, 2006

Central Fax No. 571/273-8300 Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

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Dated: August 9, 2006

Christine A. Lekutis

Dear Madam:

This communication is responsive to the Final Office Action of June 13, 2006, having a deadline for provoking an Advisory Action of August 13, 2006. Applicants respectfully request reconsideration of the application in view of the following amendments to the claims, and remarks and arguments provided herein.

> 08/10/2006 HTECKLU1 00000002 081290 10630074

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